

# PATENT ABSTRACTS OF JAPAN

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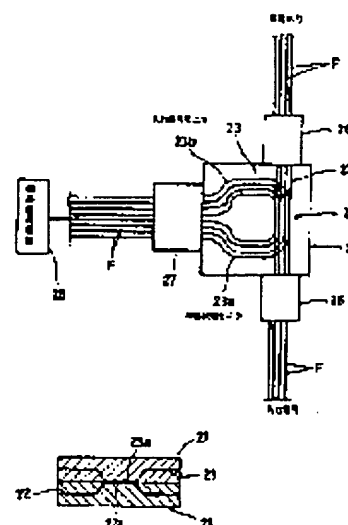
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## (54) OPTICAL WAVEGUIDE DEVICE

### (57)Abstract:

**PURPOSE:** To eliminate the intersection of optical waveguide circuits and ensure the compact design and freedom thereof from crosstalk in an optical waveguide circuit device having an optical fiber or an optical fiber connector at the terminal end thereof by connecting the optical waveguide circuits to each other in the vertical direction of a circuit board.

**CONSTITUTION:** An optical waveguide circuit board 21 has two different optical waveguide circuits 22 and 23. The circuit 22 is so formed as to have a straight line, while the other 23 has an approximately circular form. The connected section 24 of the circuits 22 and 23 is so made that the section of a straight connected waveguide 22a is at the lower layer side of the board 21, and the section of a U-shaped connected waveguide 23a is at the upper layer side of the board 21 respectively for connection in the vertical direction of the board 21. According to this construction, the optical waveguide circuits 22 and 23 are connected to each other in the vertical direction of the board 21 and, therefore, no circuit intersection is required as in the case of the conventional circuit board optical waveguide type of a device. Also, compact design and freedom from crosstalk can be ensured.



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